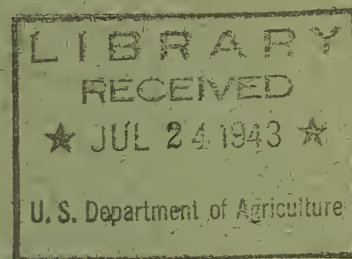


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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL CHEMISTRY AND ENGINEERING



1940-41 ANNUAL

NAVAL STORES REPORT

on

Production, Distribution, Consumption and Stocks

of

TURPENTINE AND ROSIN

of the

UNITED STATES

By Crop Years

Issued May 20, 1941

Compiled by

C. F. Speh

Naval Stores Research Division

FOREWORD

This is the seventh of the series of annual reports by the U. S. Department of Agriculture giving production, consumption, and stocks of naval stores. The period covered by the annual reports is that of the naval stores season --- April 1-March 31. Semi-annual reports, covering the six-month period April 1-September 30, are also issued. These reports are issued under Federal Act 278, providing for the publication of statistics relating to spirits of turpentine and rosin.

Carryover (stocks) of turpentine and rosin is separated into gum and wood products. Stocks of wood rosin do not include so-called "B wood rosin." While sulphate wood turpentine is carried in the regular production and carryover tables, data on "liquid rosin" are in a table separate from gum and wood rosins. Pending the selection of a proper term, we continue to refer to the mixture of resin and fatty acids recovered from the acidulated soap curds obtained in the production of sulphate pulp as "liquid rosin." The term "sulphate wood rosin" refers to the resin acids constituting approximately 42 percent of "liquid rosin."

The data on production, consumption and stocks are expressed in commercial units: For turpentine -- barrels of 50 gage gallons; and for rosin -- barrels of approximately 500 pounds gross weight. Carryover (stocks) figures do not include gum and wood turpentines producible from crude gum and crude steam distilled or destructively distilled wood turpentine on hand.

Statistics on foreign production, stocks and exports have been omitted from this issue due to lack of complete and accurate data.

These reports are designed to be of use to the industry -- producer, factor distributor and consumer. Every effort is made to obtain complete and accurate information but the completeness, accuracy and promptness of issue depend upon the co-operation of those reporting. In accepting the statistics given in this report, as well as those in the previous reports, it should be borne in mind that the Bureau of Agricultural Chemistry and Engineering merely assembles the figures from the individual reports received and is not responsible for their accuracy.

The date of issue reflects the promptness of receipt of reports. It is hoped that these reports can be issued within 30 days after the end of the 12-month period to which they apply.

The Bureau of Agricultural Chemistry and Engineering extends its thanks to those producers, factors, distributors and consumers who have so kindly cooperated in furnishing the requested information. The Bureau is particularly grateful for the continued cooperation and constructive comment of Mr. J. E. Lockwood.

SUMMARY OF TURPENTINE

(SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. 50 gals.)
(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

	<u>1940-41</u>			<u>1939-40</u>		
	<u>12 mos. (Apr.-Mar.)</u>			<u>12 mos. (Apr.-Mar.)</u>		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 1a - SUPPLY AND DISTRIBUTION</u>						
U.S. Carryover Apr. 1 ¹	220,267	167,943	52,324	314,323	272,658	41,665
Production ²	566,341	343,938	222,403	604,778	382,781	221,997
Imports ³	<u>16,888</u>	<u>16,888</u>	<u>---</u>	<u>16,492</u>	<u>16,492</u>	<u>---</u>
Available Supply	803,496	528,769	274,727	935,593	671,931	263,662
Less Carryover Mar. 31 ¹	<u>209,910</u>	<u>146,735</u>	<u>63,175</u>	<u>220,267</u>	<u>167,943</u>	<u>52,324</u>
Appar. Total Consumption	593,586	382,034	211,552	715,326	503,988	211,338
Less Exports ⁴	<u>130,855</u>	<u>103,127</u>	<u>27,728</u>	<u>238,438</u>	<u>189,684</u>	<u>48,754</u>
Appar. U. S. Consumption	462,731	278,907	183,824	476,888	314,304	162,584

TABLE 2a - CARRYOVER (Stocks)

U.S. Carryover, Apr. 1	220,267	167,943	52,324	314,323	272,658	41,665
U.S. Carryover, Mar.31	<u>209,910</u>	<u>146,735</u>	<u>63,175</u>	<u>220,267</u>	<u>167,943</u>	<u>52,324</u>
Increase	<u>---</u>	<u>---</u>	10,851	<u>---</u>	<u>---</u>	10,659
Decrease	10,357	21,208	<u>---</u>	94,056	104,715	<u>---</u>

¹ Tables 3a and 4a.

² Table 5a.

³ Table 7.

⁴ Tables 9-11.

SUMMARY OF ROSIN

SUPPLY DISTRIBUTION AND CARRYOVER (Bbls. 500 lbs. gross)
(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

<u>1940-41</u>			<u>1939-40</u>		
<u>12 mos. (Apr.-Mar.)</u>			<u>12 mos. (Apr.-Mar.)</u>		
<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>

TABLE 1b - SUPPLY AND DISTRIBUTION

U.S. Carryover Apr.1 ¹	1,569,396	1,409,649	159,747	1,621,970	1,399,124	222,846
Production ²	2,146,865 ⁴	1,173,639 ⁴	973,226	2,293,971 ⁴	1,317,795 ⁴	976,176
Imports ³	<u>0</u>	<u>0</u>	<u>---</u>	<u>2,398</u>	<u>2,398</u>	<u>---</u>
Available Supply	3,716,261	2,583,288	1,132,973	3,918,339	2,719,317	1,199,022
Less Carryover Mar.31	<u>1,874,160</u>	<u>1,653,235</u>	<u>220,925</u>	<u>1,569,396</u>	<u>1,409,649</u>	<u>159,747</u>
Appar.Tot.Consumption	1,842,101	930,053	912,048	2,348,943	1,309,668	1,039,275
Less Exports ⁵	<u>535,128</u>	<u>278,671</u>	<u>256,457</u>	<u>975,880</u>	<u>588,845</u>	<u>387,035</u>
Appar.U.S.Consumption	1,306,973	651,382	655,591	1,373,063	720,823	652,240

TABLE 2b - CARRYOVER (STOCKS)

U.S. Carryover Apr.1	1,569,396	1,409,649	159,747	1,621,970	1,399,124	222,846
U.S. Carryover Mar.31	<u>1,874,160</u>	<u>1,653,235</u>	<u>220,925</u>	<u>1,569,396</u>	<u>1,409,649</u>	<u>159,747</u>
Increase	304,764	243,586	61,178	<u>---</u>	10,525	<u>---</u>
Decrease	<u>---</u>	<u>---</u>	<u>---</u>	52,574	<u>---</u>	63,099

¹ Tables 3b and 4b.

² Table 5b.

³ Table 8.

⁴ Includes reclaimed gum rosin.

⁵ Tables 9-11.

DETAILS AND SUMMARY OF TURPENTINE CARRYOVER (Ebls. 50 gals.)
(At close of naval stores season, on March 31)

	<u>1941</u>			<u>1940</u>		
	Mar. 31			Mar. 31		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3a - DETAILS OF TURPENTINE CARRYOVER</u>						
<u>Production Points</u>						
Gum Still ¹	16,127	16,127	---	7,778	7,778	---
Wood Plant ¹						
Steam Dist. ²	34,132	---	34,132	23,104	---	23,104
Sulphate	4,688	---	4,688	4,929	---	4,929
Dest. Dist.	1,001	---	1,001	1,093	---	1,093
Total	55,948	16,127	39,821	36,904	7,778	29,126
<u>So. Concent. Points</u>						
Savannah ³	5,143	5,143	---	9,822	9,822	---
Jacksonville ³	9,201	9,201	---	36,278	36,278	---
Pensacola ³	9,948	9,948	---	10,735	10,735	---
Other Sou. Ports	13,296	13,296	---	17,637	17,637	---
Interior Yards	60,579	60,579	---	51,823	51,823	---
Total	98,167	98,167	---	126,295	126,295	---
<u>Distrib. Points</u>						
Eastern	12,546	5,467	7,079	10,824	5,205	5,619
Central	19,811	11,630	8,181	25,181	16,488	8,693
Western	8,790	7,151	1,639	4,728	2,720	2,008
Total ⁴	41,147	24,248	16,899	40,733	24,413	16,320
<u>Industrial Plant⁵</u>	14,648	8,193	6,455	16,335	9,457	6,878

TABLE 4a - SUMMARY OF TURPENTINE CARRYOVER

Production Points	55,948	16,127	39,821	36,904	7,778	29,126
So. Concent. Points	98,167	98,167	---	126,295	126,295	---
Distrib. Points	41,147	24,248	16,899	40,733	24,413	16,320
Industrial Plant ⁵	14,648	8,193	6,455	16,335	9,457	6,878
Total in U.S.	209,910	146,735	63,175	220,267	167,943	52,324

At and afloat to London⁶ ---
Total U. S. and London ---

¹ Compiled from reports by producers and factors.

² Does not include by-products resulting from making paler grades from FF wood rosin.

³ Official Board of Trade and Chamber of Commerce reports.

⁴ Compiled from reports of individual distributors.

⁵ Compiled from reports of individual consumers.

⁶ Not available.

DETAILS AND SUMMARY OF ROSIN CARRYOVER (Bbls. 500 lbs. gross)
(At close of naval stores season, on March 31)

	<u>1941</u> Mar. 31			<u>1940</u> Mar. 31		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 3b - DETAILS OF ROSIN CARRYOVER</u>						
<u>Production Points</u>						
Gum stills ¹	76,154	76,154	---	32,283	32,283	---
Wood plants ¹						
Steam dist. ²	101,485	---	101,485	94,030	---	94,030
Sulphate	---	---	---	2,994	---	2,994
Dest. Dist.	---	---	---	---	---	---
Total	177,639	76,154	101,485	129,307	32,283	97,024
<u>So. Concent. Points</u>						
Savannah ³	164,807	164,807	---	166,509	166,509	---
Jacksonville ³	336,436	336,436	---	318,861	318,861	---
Pensacola ³	50,265	50,265	---	53,193	53,193	---
Other sou. ports	272,143	272,143	---	223,564	223,564	---
Interior yards	570,463	570,463	---	432,326	432,326	---
Total	1,394,114	1,394,114	---	1,194,453	1,194,453	---
<u>Distrib. Points</u>						
Eastern	38,042	9,308	28,734	7,610	2,716	4,894
Central	12,584	4,409	8,175	7,047	3,674	3,373
Western	2,174	1,411	763	1,554	793	761
Total ⁴	52,800	15,128	37,672	16,211	7,183	9,028
<u>Industrial Plants</u> ⁵	249,607	167,839	81,768	229,425	175,730	53,695

TABLE 4b - SUMMARY OF ROSIN CARRYOVER (Stocks)

Production points	177,639	76,154	101,485	129,307	32,283	97,024
So. concent. points	1,394,114	1,394,114	---	1,194,453	1,194,453	---
Distrib. points	52,800	15,128	37,672	16,211	7,183	9,028
Industrial plants	249,607	167,839	81,768	229,425	175,730	53,695
Total in U. S.	1,874,160	1,653,235	220,925	1,569,396	1,409,649	159,747

¹ Compiled from reports by producers and factors.

² Does not include by-products resulting from making paler grades from FF wood rosin.

³ Official Board of Trade and Chamber of Commerce Reports.

⁴ Compiled from reports of individual distributors.

⁵ Compiled from reports of individual consumers.

DETAILS OF PRODUCTION

(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

	<u>1940-41</u>			<u>1939-40</u>		
	12 mos. (Apr. - Mar.)			12 mos. (Apr. - Mar.)		
	<u>Total</u>	<u>Gum</u>	<u>Wood</u>	<u>Total</u>	<u>Gum</u>	<u>Wood</u>
<u>TABLE 5a - PRODUCTION OF TURPENTINE (Bbls. 50 gals.)</u>						
Gum	343,938	343,938	---	382,781	382,781	---
Wood, Steam Dist..	161,161	---	161,161	158,575	---	158,575
" Sulphate	54,081	---	54,081	56,631	---	56,631
" Dest. Dist.	<u>7,161</u>	<u>---</u>	<u>7,161</u>	<u>6,791</u>	<u>---</u>	<u>6,791</u>
Total	566,341	343,938	222,403	604,778	382,781	221,997

TABLE 5b - PRODUCTION OF ROSIN (Bbls. 500 lbs. gross)

Gum	1,148,413	1,148,413	---	1,278,527	1,278,527	---
Reclaimed (Gum)	25,226	25,226	---	39,268	39,268	---
Wood, Steam Dist.	973,226	---	973,226	949,343	---	949,343
" Sulphate (Table 5c)	---	---	---	26,833	---	26,833
" Dest. Dist.	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
Total	2,146,865	1,173,639	973,226	2,293,971	1,317,795	976,176

TABLE 5c - PRODUCTION OF "SULPHATE WOOD ROSIN"

<u>1940-41</u>	<u>1939-40</u>
18,358 tons liquid rosin equivalent to 7,710 tons abietic acid.	13,257 tons liquid rosin equivalent to 5,568 tons abietic acid.

TABLE 6 - PRODUCTION OF GUM TURPENTINE BY STATES

	<u>Barrels</u>	<u>Percentage</u>	<u>Barrels</u>	<u>Percentage</u>
North Carolina	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>
South Carolina	6,040	1.76	8,788	2.30
Georgia	218,202	63.45	227,469	59.43
Florida	86,560	25.16	103,451	27.02
Alabama	23,444	6.81	28,697	7.50
Mississippi	7,870	2.29	11,304	2.95
Louisiana	1,822	.53	3,072	.80
Texas	<u>2/</u>	<u>2/</u>	<u>2/</u>	<u>2/</u>
Total	343,938	100.0	382,781	100.0

1/ Combined with South Carolina.

2/ Combined with Louisiana.

UNITED STATES IMPORTS OF NAVAL STORES

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 7 - IMPORTS, SPIRITS OF TURPENTINE

(Bbls. - 50 gals.)

<u>Shipped from:</u>	<u>1940-41</u>	<u>1939-40</u>
Austria	0	0
Canada	0	0
France	0	0
Germany	0	0
Greece	0	0
Italy	0	0
Mexico	16,625	16,464
Netherlands	31	0
Norway	0	0
Portugal	0	0
Spain	0	0
Soviet Russia	0	0
Sweden	0	0
United Kingdom	0	0
Other Countries	<u>32</u>	<u>28</u>
Totals	16,688	16,492

TABLE 8 - IMPORTS, ROSIN

(Bbls. - 500 lbs. gross)

Austria	0	0
Canada	0	0
France	0	1
Germany	0	0
Greece	0	0
Italy	0	0
Mexico	0	2,372
Netherlands	0	0
Norway	0	0
Portugal	0	0
Soviet Russia	0	0
Spain	0	0
Sweden	0	0
United Kingdom	0	0
Other Countries	<u>0</u>	<u>25</u>
Totals	0	2,398

(Source of information - Bureau of the Census, Department of Commerce)

NOTE: As Government records of imports of turpentine and rosin do not require any declaration as to whether they are gum or wood products, the available statistics show only total turpentine and total rosin imports. However, it appears probable that all imports reported above were in fact gum spirits of turpentine and gum rosin.

UNITED STATES EXPORTS OF TURPENTINE

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 9a - TOTAL EXPORTS OF TURPENTINE

(Bbls. - 50 gal.)

<u>Destination</u>	<u>1940-41</u>	<u>1939-40</u>
United Kingdom	74,222	115,153
Germany and No. Europe	403	36,688
Italy and So. Europe	3,852	12,283
Argentina	2,954	4,357
Brazil	3,441	3,531
Other South America	3,508	5,165
Japan	0	37
Australia and New Zealand	7,394	20,282
Netherlands East Indies	16	67
Canada	24,758	28,416
All Other Exports	<u>10,307</u>	<u>10,459</u>
Totals	130,855	238,438

TABLE 10a - EXPORTS, GUM SPIRITS OF TURPENTINE

United Kingdom	60,797	93,265
Germany and No. Europe	402	34,301
Italy and So. Europe	573	4,116
Argentina	2,163	3,778
Brazil	2,248	2,355
Other South America	2,681	4,355
Japan	0	37
Australia and New Zealand	5,830	15,278
Netherlands East Indies	15	58
Canada	20,204	24,773
All Other Exports	<u>8,214</u>	<u>7,368</u>
Totals	103,127	189,684

TABLE 11a - EXPORTS, WOOD TURPENTINE

United Kingdom	13,425	21,888
Germany and No. Europe	1	4,387
Italy and So. Europe	3,279	8,167
Argentina	791	579
Brazil	1,193	1,176
Other South America	827	810
Japan	0	0
Australia and New Zealand	1,564	5,004
Netherlands East Indies	1	9
Canada	4,554	3,643
All Other Exports	<u>2,093</u>	<u>3,091</u>
Totals	27,728	48,754

(Source of information - Bureau of the Census, Department of Commerce.)

UNITED STATES EXPORTS OF ROSIN

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 9b - TOTAL EXPORTS OF ROSIN.1/

(Bbls. - 500 lbs. gross)

<u>Destination</u>	<u>1940-41</u>	<u>1939-40</u>
United Kingdom	122,223	291,481
Germany and No. Europe	12,649	224,233
Italy and So. Europe	12,077	30,464
Argentina	36,486	55,302
Brazil	59,924	72,372
Other South America	32,787	42,772
Japan	77,102	43,841
Australia and New Zealand	36,053	44,486
Netherlands East Indies	20,117	33,729
Canada	62,703	61,902
All Other Exports	<u>63,007</u>	<u>75,298</u>
Totals	535,128	975,880

TABLE 10b - EXPORTS OF GUM ROSIN

United Kingdom	71,488	179,792
Germany and No. Europe	8,994	134,287
Italy and So. Europe	9,887	17,938
Argentina	20,407	32,260
Brazil	10,513	18,662
Other South America	13,066	25,061
Japan	45,816	35,476
Australia and New Zealand	22,479	34,827
Netherlands East Indies	8,095	16,068
Canada	31,907	42,676
All Other Exports	<u>36,019</u>	<u>51,798</u>
Totals	278,671	588,845

TABLE 11b - EXPORTS OF WOOD ROSIN

United Kingdom	50,735	111,689
Germany and No. Europe	3,655	89,946
Italy and So. Europe	2,190	12,526
Argentina	16,079	23,042
Brazil	49,411	53,710
Other South America	19,721	17,711
Japan	31,286	8,365
Australia and New Zealand	13,574	9,659
Netherlands East Indies	12,022	17,661
Canada	30,796	19,226
All Other Exports	<u>26,988</u>	<u>23,500</u>
Totals	256,457	387,035

1/ Includes product commonly referred to as "B Wood Rosin."

(Source of information - Bureau of the Census, Department of Commerce.)

TABLE 12a - REPORTED CONSUMPTION OF TURPENTINE IN UNITED STATES (Bbls. - 50 gal.)
(By naval stores seasons beginning April 1 and ending the following March 31)

	1940-41 (Apr. - Mar.)			1939-40 (Apr. - Mar.)		
	<u>Total</u>	<u>Gum¹</u>	<u>Wood¹</u>	<u>Total</u>	<u>Gum¹</u>	<u>Wood¹</u>
Abattoirs	0			0		
Adhesives & plastics	365			716		
Asphaltic products	0			1		
Automobiles & wagons	289 ⁴			374		
Chemicals & pharmaceuticals	40,413			36,026		
Ester gum & synthetic resins	0			0		
Foundries & f'dry supplies	847			659		
Furniture	495			526		
Insecticides & disinfectants	486			354		
Linoleum & floor covering	78			147		
Matches	0			0		
Oils & greases	84			24		
Paint, varnish & lacquer	51,437			53,730		
Paper & paper size	0			0		
Printing ink	230			179		
Railroads & shipyards	6,107			5,071		
Rubber	230			149		
Shoe polish & shoe mat'ls	12,453			12,505		
Soap	0			0		
Other industries	<u>1,020</u>			<u>801</u>		
Total industrial reported	114,534	61,791	52,743	111,262	59,936	51,326
Not accounted for ²	348,197	217,116	131,081	365,626	254,368	111,258
Apparent U. S. Consumption ³	462,731	278,907	183,824	476,888	314,304	162,584

¹ Separation of gum and wood turpentine consumption is limited to the total reported.

² Principally unreported distribution of turpentine through retailers who sell in small quantities to ultimate consumers.

³ From Table 1a, page 1.

⁴ Part of previously reported consumption transferred to Paint and Varnish.

TABLE 12b - REPORTED CONSUMPTION OF ROSIN IN UNITED STATES (Bbls. - 500 lbs.)
(By naval stores seasons beginning April 1 and ending the following Mar. 31)

	<u>1940-41</u> (Apr. - Mar.)			<u>1939-40</u> (Apr. - Mar.)		
	<u>Total</u>	<u>Gum¹</u>	<u>Wood¹</u>	<u>Total</u>	<u>Gum¹</u>	<u>Wood¹</u>
Abattoirs	957			1,291		
Adhesives & plastics	16,793			17,968		
Asphaltic products	8,734			1,076		
Automobiles & wagons	503			346		
Chemicals & pharmaceuticals	116,007			163,583		
Ester gum & synthetic resins	127,230			127,036		
Foundries & f'dry supplies	16,740			10,852		
Furniture	15			10		
Insecticides & disinfectants	3,678			5,125		
Linoleum & floor covering	39,272			37,259		
Matches	2,736			3,384		
Oils & greases	30,108			31,076		
Paint, varnish & lacquer	157,798			157,519		
Paper & paper size	327,938			355,622		
Printing ink	15,502			13,381		
Railroads & shipyards	2,723			1,072		
Rubber	6,553			4,903		
Shoe polish and shoe mat'ls	8,563			9,228		
Soap	191,266			235,014		
Other industries	<u>5,615</u>			<u>4,363</u>		
Total industrial reported	1,078,731	579,155	499,576	1,180,108	717,965	462,143
Not accounted for ²	228,242	72,227	156,015	192,955	2,858	190,097
Apparent U.S. consumption ³	1,306,973	651,382	655,591	1,373,063	720,823	652,240

¹ Separation of gum and wood rosin consumption is limited to the total reported.

² Principally unreported industrial consumption of rosin and rosin for distribution through retailers who sell in small quantities to ultimate consumers.

³ From Table 1b, page 2.

TABLE 13 - WEIGHTED AVERAGE MONTHLY AND SEASON PRICES OF GUM SPIRITS OF TURPENTINE - 1921-22 to 1940-41
(Based upon Wednesdays and Saturdays closing Savannah Prices)²

Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
							Cents per Gallon						
1921-22	53.17	61.83	52.62	53.06	56.55	65.15	69.04	73.44	74.14	83.86	86.07	80.92	62.62
1922-23	79.50	86.07	106.54	113.07	110.61	123.31	145.94	151.25	130.71	145.87	143.29	147.53	119.82
1923-24	145.32	105.48	94.74	88.73	88.83	91.61	83.86	88.50	86.36	94.88	95.37	95.72	95.22
1924-25	91.82	83.49	77.63	77.66	82.99	82.28	81.43	79.24	77.64	86.40	87.95	86.00	81.30
1925-26	87.39	97.39	92.48	90.08	95.29	106.25	105.56	104.79	93.77	99.72	92.69	93.81	96.66
1926-27	89.86	79.67	80.14	82.07	89.31	86.00	84.75	82.69	80.85	76.07	68.00	67.38	82.62
1927-28	60.61	56.41	51.24	50.64	52.31	49.22	46.71	44.36	49.49	55.03	54.94	54.82	51.38
1928-29	52.06	47.87	50.87	49.83	47.58	46.40	48.18	54.22	55.50	56.47	53.16	52.42	50.54
1929-30	48.78	48.90	46.83	47.11	46.68	49.74	50.82	47.85	48.13	49.42	50.12	50.67	48.28
1930-31	48.42	43.51	41.33	37.56	35.32	38.26	35.60	37.03	36.14	38.11	39.97	47.81	39.34
1931-32	50.44	49.42	50.69	39.77	31.40	31.88	31.17	35.21	33.83	34.68	34.84	40.06	40.10
1932-33	39.50	39.44	38.64	35.94	37.68	41.09	40.86	39.71	37.04	39.88	39.75	39.46	38.82
1933-34	37.88	42.47	40.39	46.39	42.83	41.97	40.81	42.14	42.07	47.44	57.00	55.00	42.72
1934-35	53.66	50.81	46.44	42.82	41.83	41.19	46.59	48.00	46.46	49.59	50.53	49.71	45.64
1935-36	47.37	47.07	44.46	42.40	38.47	40.91	45.76	44.92	43.96	45.19	44.44	39.31	43.56
1936-37	37.43	36.26	35.86	36.44	38.73	37.19	36.33	38.25	41.59	43.13	41.84	39.01	37.48
1937-38	35.97	35.83	34.07	33.44	31.94	29.93	27.28	26.92	26.14	28.18	26.47	25.42	31.35
1938-39	23.18	22.69	22.56	23.24	22.53	20.92	22.81	22.32	22.31	24.78	25.56	28.42	22.61
1939-40	24.96	23.93	24.00	24.11	23.72	26.11	27.16	25.72	27.00	30.17	32.91	31.67	25.31
1940-41	28.78	27.65	26.25	26.69 ³	28.69	30.80	34.99	38.37	37.11	42.05	38.78	39.25	30.03

¹ The monthly prices were obtained by averaging the Wednesday and Saturday closing prices. The season average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville, and Pensacola and dividing the total of these figures for the season by the total receipts for that season, thereby giving the months of heavy receipts and of low receipts their proper relative value.

² Wednesdays and Fridays closing Savannah prices were used for December, January, and February, for 1936-37 and 1937-38. Fridays prices were used for 1938-39, 1939-40 and 1940-41 when there was no quoted Saturday market.

³ To complete the table, beginning July 1, 1940, 6 cents per gallon has been added to the Savannah prices.

Sources of data: Prices, Florida inspections and monthly receipts at Savannah, Jacksonville and Pensacola are taken from the NAVAL STORES REVIEW AND JOURNAL OF TRADE, DAILY MARKET REPORTS OF THE SAVANNAH EXCHANGE, JACKSONVILLE AND PENSACOLA CHAMBERS OF COMMERCE. Economic Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

TABLE 14 - WEIGHTED AVERAGE MONTHLY AND SEASON PRICES OF GUM ROSIN (280-lb. bbls.) - 1921-22 to 1940-41
(Based upon Wednesdays and Saturdays closing Savannah Prices)²

Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
In dollars per barrel of 280 pounds gross weight													
1921-22	4.00	4.42	3.87	3.78	4.00	4.39	4.34	4.42	4.47	4.21	4.22	4.10	4.20
1922-23	4.35	4.79	5.09	5.23	5.25	5.52	5.75	5.48	5.14	5.07	5.15	5.17	5.20
1923-24	4.96	4.88	4.82	4.78	4.66	4.62	4.57	4.44	4.80	4.88	4.69	4.74	4.67
1924-25	4.81	4.88	4.72	4.71	4.94	5.20	5.99	6.46	6.49	7.19	7.28	7.24	5.61
1925-26	7.52	9.01	8.78	9.15	10.22	13.02	14.33	14.22	13.05	12.09	13.34	12.66	11.11
1926-27	11.66	10.42	12.18	13.09	12.53	13.92	12.32	11.64	11.64	11.98	11.98	10.42	12.20
1927-28	9.77	9.11	8.46	8.32	8.96	8.47	7.64	6.87	7.64	8.61	8.38	8.58	8.35
1928-29	8.31	7.68	8.24	8.53	8.32	8.06	8.20	8.53	8.57	8.57	8.36	8.08	8.29
1929-30	7.50	7.39	7.31	7.49	7.44	7.87	8.16	7.62	7.34	7.48	7.45	7.22	7.54
1930-31	6.85	6.16	5.65	4.78	4.42	4.77	4.37	4.45	4.46	4.30	4.52	4.95	5.02
1931-32	4.96	5.01	5.26	3.95	3.12	3.04	2.95	3.27	3.10	3.10	3.18	3.67	3.89
1932-33	2.98	2.91	2.74	2.54	2.32	3.23	3.07	2.94	2.92	2.98	2.90	2.90	2.83
1933-34	2.95	3.54	3.53	4.09	3.83	3.91	3.86	3.92	3.90	4.24	5.04	5.06	3.88
1934-35	5.09	4.87	4.55	4.30	4.37	4.43	4.52	4.45	4.48	4.73	4.86	4.79	4.55
1935-36	4.67	4.72	4.58	4.44	4.12	4.38	4.81	4.71	4.55	4.60	4.57	4.60	4.54
1936-37	4.38	4.32	4.70	5.42	6.68	6.00	6.23	7.26	9.28	10.20	9.76	8.97	6.42
1937-38	8.07	8.30	8.15	8.00	7.98	8.03	7.35	6.21	5.55	5.92	5.38	4.73	7.35
1938-39	4.87	4.67	4.81	5.15	4.98	4.72	5.28	5.64	5.09	5.12	5.29	5.79	5.02
1939-40	5.22	5.19	5.34	5.49	5.34	5.66	5.73	5.54	5.39	5.54	5.51	5.59	5.44
1940-41	5.20	5.06	4.69	4.00	4.46	4.21	4.44	4.72	4.51	4.76	4.69	4.83	4.55

Note: Ficin Grades included in average prices follow:--X, WW, WG, N, M, K, I, H, G, F, E, D, B.

¹ The monthly prices were obtained by multiplying the average of the Wednesday and Saturday prices of each grade by the number of barrels of each grade reported as inspected in Florida during that month, and dividing the total of the resulting figures by the total number of barrels inspected in Florida during that month, thereby giving the proper relative value to each grade. The season average price was obtained by multiplying each monthly price by the combined reported receipts during that month at Savannah, Jacksonville and Pensacola and dividing the total of these figures for the season by the total receipts for the season, thereby giving the months of heavy receipts and of low receipts their proper relative value.

² Wednesdays and Fridays closing Savannah prices were used for December, January and February for 1935-37 and 1937-38. Fridays prices were used for 1938-39 and 1939-40, and 1940-41 when there was no quoted Saturday market.

Sources of data: Prices, Florida inspectors and monthly receipts at Savannah, Jacksonville and Pensacola are taken from the NAVAL STORES REVIEW AND JOURNAL OF TRADE, DAILY MARKET REPORTS OF THE SAVANNAH EXCHANGE, JACKSONVILLE AND FENSCICOLA CHAMBERS OF COMMERCE. Economic Analysis Unit, General Crops Section, Agricultural Adjustment Administration.

TABLE 15 - TURPENTINE CUPS SOLD FOR SEASONS 1923-24 to 1941-42

A compilation of information furnished by the manufacturers of turpentine cups shows that a total of 2,744,000 cups was sold last winter and this spring for use in gathering the 1941-42 crop of naval stores.

.. Sales of new cups for the past 19 seasons were reported as follows:

1941-42	2,744,000	1931-32	1,085,000
1940-41	7,567,659	1930-31	11,178,800
1939-40	1,638,300	1929-30	24,488,760
1938-39	10,525,180	1928-29	12,589,000
1937-38	17,204,900	1927-28	32,310,000
1936-37	17,530,000	1926-27	20,500,000
1935-36	6,219,240	1925-26	10,059,000
1934-35	11,707,839	1924-25	13,249,000
1933-34	11,088,333	1923-24	24,828,500
1932-33	3,620,000		

ADDENDA

Additional information pertaining to naval stores may be obtained as follows:

For monthly, quarterly and annual reports on imports and exports of turpentine and rosin, address: Foreign Trade Statistics, Bureau of the Census, Department of Commerce, Washington, D. C. Price ten cents per copy.

For biennial census of the production of turpentine and rosin, address: Bureau of the Census, Department of Commerce, Washington, D. C.

For information on the southern forest survey showing turpentine timber resources, address: Southern Forest Experiment Station, New Orleans, La.

For information regarding the production, distribution, consumption and stocks of turpentine and rosin, address: Bureau of Agricultural Chemistry and Engineering, Department of Agriculture, Washington, D. C.

